House street when some street first the second some street street

5

10

15

END SEQUENCE PROFILING

ABSTRACT OF THE DISCLOSURE

The present invention provides a novel method to identify rearrangements in a test genome, e.g., a tumor genome, when compared to a reference genome. This method provides major improvements over previous methods in terms of efficiency, rapidity, and cost-effectiveness. Briefly, this method involves generating or obtaining a large insert vector library from a test genome, sequencing the ends of the inserts in the library, and comparing the co-linearity of the sequenced ends in the library with corresponding sequences within a substantially-sequenced reference genome. This invention is useful for any of a number of applications, including for identifying rearrangements in tumor genomes and for determining genetic differences between closely related species as well as between different strains of the same species.

SF 1085572 v2